DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT CORPS OF ENGINEERS
P. O. BOX 4970
JACKSONVILLE, FLORIDA 32232-0019

REPLY TO
ATTENTION OF

DEC 29 1998

Regulatory Division
199404532(IP-BB) Modification#2

Mr. Neil Larson
Ecosystem Restoration Department
South Florida Water Management District
P.O. Box 24680
West Palm Beach, Florida 33406-4680

Dear Mr. Larson:

Reference is made to the Department of the Army Permit, numbered 199404532, that authorized certain works for the Everglades Construction Project. The permit was issued to the South Florida Water Management District on March 13, 1997. This letter hereby modifies that permit. This is the second modification. In the following paragraphs, excerpts from the permit are shown with the modifications shown as additions and/or strikeouts.

The following change is made to Special Condition Number 8.b. to synchronize certain dates with current and prospective permits from the Florida Department of Environmental Protection. This affects the annual reports of the restoration evaluation plans. The year of the first submission is also adjusted to reflect the actual start of monitoring. The submission date and the water year is modified as follows: "d. Restoration evaluation plan reports for each STA shall be submitted ~~January 1, 1998~~ April 30, 1999, and annually thereafter, including data analysis for the previous water year (~~October-September~~ January-December)"

The following change is made to Special Condition 8.b.(3) which requires the submission of a Mercury Baseline report. The special condition requires submission within 90 days after the first discharge from each STA. This is based on the need for an extended quality assurance review of the data sets coming from multiple sources. The purpose is to finalize the preferred data sets and methods/procedures for future reports. This review is to be conducted with the assistance of a Quality Assurance Committee (QAC) consisting of representatives of the Florida Department of Environmental Protection, U.S. Environmental Protection Agency, U.S. Fish and Wildlife Service,

U.S. Geological Survey, South Florida Water Management District, and the Corps. The revised due date is March 1, 1999.

The following change is made to Special Condition Number 2.b.(3) to change the submission date of the recalibrated model for Stormwater Treatment Area 5 since needed data was received during the holidays: "(3) By ~~January~~ February 1, 1999, submit to this office, ..."

The enclosed four pages hereby replace pages 10, 11, 12, and 18 of the 60 pages attached to the permit instrument. The drawings delete the construction of a canal within Water Conservation Area 2A that would connect the hydropattern restoration component of Stormwater Treatment Area 2 to the Hillsboro Canal.

Thank you very much for your assistance in resolving these issues and for your cooperation with our permit program.

BY AUTHORITY OF THE SECRETARY OF THE ARMY:

Joe R. Miller
Colonel, U.S. Army
District Engineer

Enclosures

Enclosure B

Stormwater Treatment Area 2
including
S-5A Basin Runoff Diversion

This project will: add structures to the Ocean Canal and improve portions of the Ocean and Hillsboro canals to divert a portion of the runoff in Basin 5A to the Hillsboro Canal; add structures and canals to divert water from the Hillsboro Canal at Pumping Station S-6; flood Brown's Farm Wildlife Management Area and certain adjacent agricultural lands to create three treatment cells; add a Pump Station to discharge the treated flows to the L-8 borrow canal. The project will provide an effective treatment area of approximately 6,430 acres. The works are described by the drawings on pages 12 to 17.

Specific construction activities include the following.

S-6 Diversion and Supply. Excavation of a Diversion Canal and construction of a levee from the discharge of Pumping Station S-6 through Water Conservation Area 2A to Borrow Canal L-6, then the continuation of that excavation through agricultural land south (and the construction of levees on both sides of the canal) to serve as the Supply Canal. At Borrow Canal L-6, construction of a plug to the north and a control structure G-339 to the south of the Diversion Canal to direct flows to the Supply Canal or to the Hydropattern Restoration. ~~Excavation of a canal and levee from Borrow Canal L-6 across Water Conservation Area 2A to connect to the Hillsboro canal to supply water from the Hydropattern Restoration to Water Conservation Area 1A.~~ SEE PAGE 11 of 60 Construction of pump station G328 to replace the existing station draining adjacent agricultural lands.

Treatment Areas. Excavate Inflow canal, with parallel perimeter levee, seepage canal, inflow control mound on the side toward the agricultural lands and a perimeter levee, spreader canal, and control structures G329A-F, G331A-L, and G333A-I to distribute water into the treatment cells. Construction of a West Perimeter Levee and seepage canal. Construction of pump station G-337 for seepage return. Enlarge and raise existing embankment between Cells 1 and 2 as an Interior Levee 1, including, for part of the length, excavation of a Collection Canal for Cell 2. Place fill to construct a new Interior Levee 2 between Cells 2 and 3. "Degrade" berms and fill agricultural canals within the cells.

This replaces drawing page 10 of 60 that was dated MAR 10 '97 and attached to U. S. Army Permit# 1994 04532

Discharge Canal. Construction of a Discharge Canal along the south perimeter of the treatment cells, with a parallel collection canal and control structures G330A-H to pass flows from the treatment cells, and with a parallel perimeter levee, seepage canal, and inflow control mound adjacent to the agricultural lands. Construction of control structures G-332 and G-334 to control discharge from Cell 2 into the Discharge Canal. Construction of pump station G-335 to move treated water from the Discharge Canal to Borrow Canal L-6 (Hydropattern Restoration).

S-5A Diversion. Widening of certain length of Ocean and Hillsboro canals. Construction of two control structures G-340 and G-341.

FROM PAGE 10 of 60

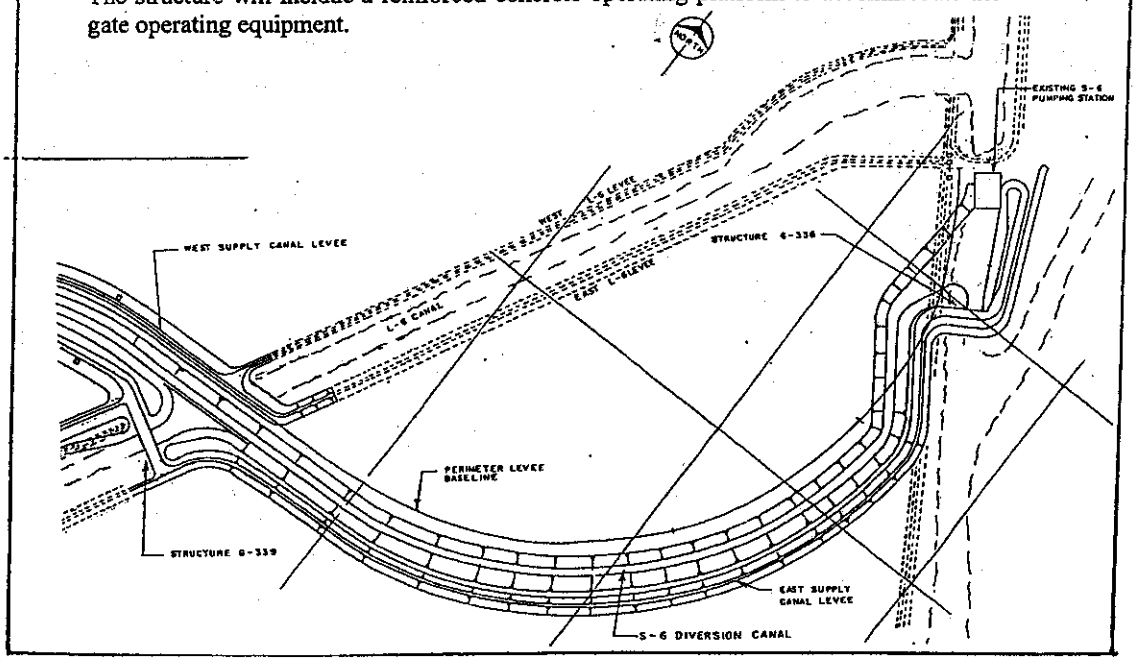
S-6 Diversion and WCA-1 Water Supply

The S-6 Diversion and WCA-1 Water Supply project components include the construction of the S-6 Diversion Canal and associated levees, and water control structures G-338 and G-339. These water control structures will allow for by-pass of STA-2 and direct discharge into WCA-2A during major storm events and the discharge of untreated water from pump station S-6 to WCA-1 via the Hillsboro Canal for purposes of providing water to the Lower East Coast during times of drought.

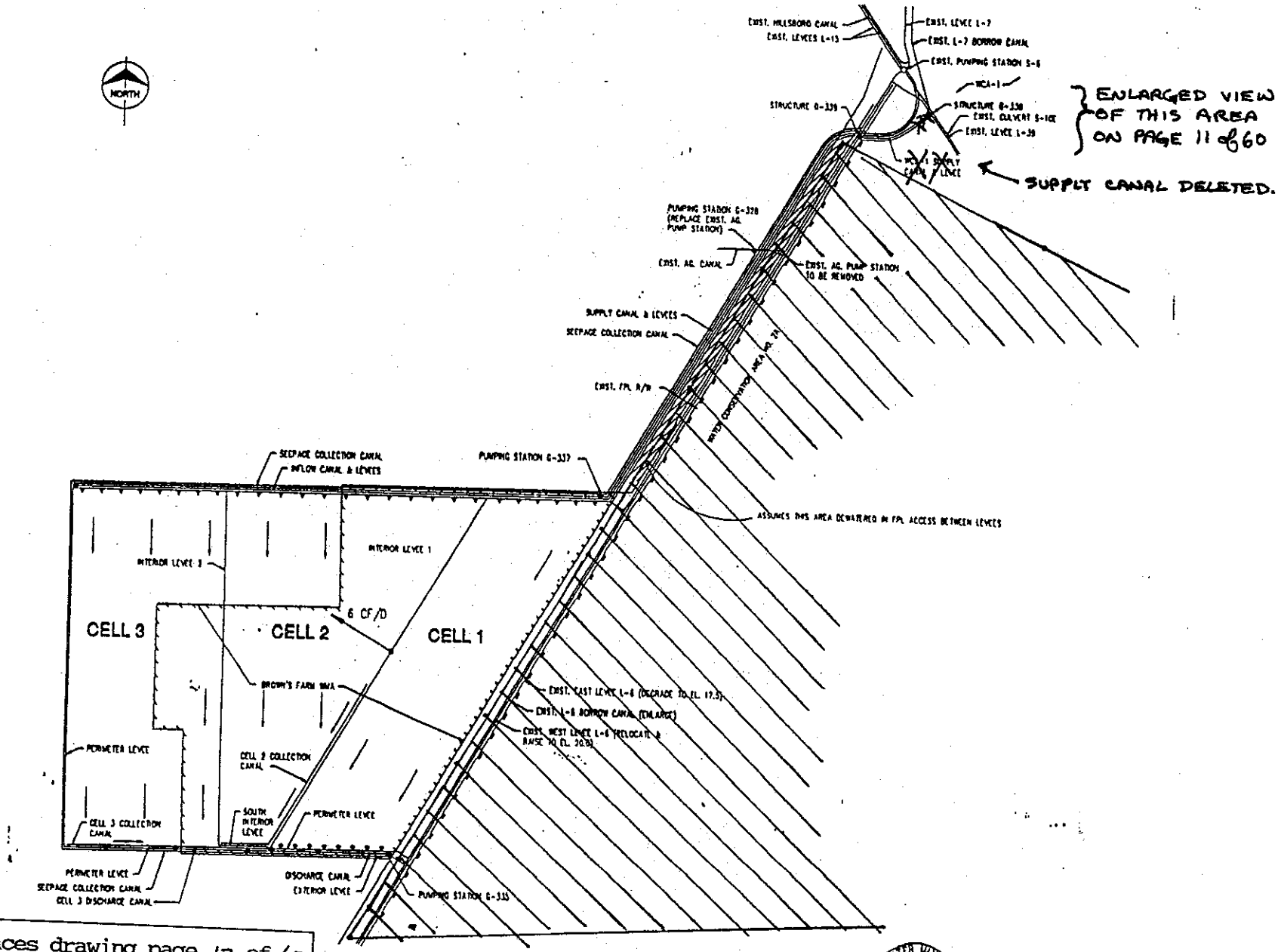
The S-6 Diversion Canal and associated levees will be constructed to convey discharges from existing pump station S-6 to the STA-2 supply canal. The construction will extend from the S-6 station to STA PL 48+00.

Structure G-338 will allow for direct discharge of untreated water from pump station S-6 to the WCA-1. This structure will consist of a 10 foot wide by 7-foot high reinforced concrete box culvert constructed in the East Supply Canal Levee. This structure will be equipped with a single 10-foot by 7-foot vertical sluice gate and will be constructed with a reinforced concrete operating platform to accommodate the gate operating equipment.

Structure G-339 will allow for by-pass of STA-2 and direct discharge into WCA-2A during major storm events. This structure will consist of a three bay reinforced concrete box culvert constructed in the East Supply Canal Levee at the S-6 Diversion Canal and L-6 confluence. Each bay will be equipped with an 18-foot by 11.5-foot vertical roller gate. The structure will include a reinforced concrete operating platform to accommodate the gate operating equipment.



This replaces drawing page 11 of 60 that was dated MAR 10 '17 and attached to U. S. Army Permit# 199604532



STA - 2 SITE PLAN
NOT TO SCALE

This replaces drawing page 12 of 60 that was dated MAR 10 '97 and attached to U. S. Army Permit# 1994 045 32

Enclosure C

Hydroperiod Restoration
for
Water Conservation Area 2A

This project will enlarge borrow canal L-8, improve the east levee, and degrade the west Levee to direct flow of treated water from Stormwater Treatment Area 2 into approximately 7.5 miles of the northwest perimeter of Water Conservation Area 2A. ~~In addition, a new control structure G338 will be constructed in the north end of the borrow canal and a new canal constructed to enable the diversion of treated water back to the Hillsboro Canal and Water Conservation Area 1~~. The works are described by the drawings on pages 19 to 20.

Specific construction activities include the following. Excavation to enlarge Borrow Canal L-4, which will general remove the existing West Levee L-6. Construction of a new West Levee L-6. Degrade East Levee L-6 to lower the top elevation for approximately 38,900 linear feet. Construction of a plug in Borrow Canal L-6 at the southern limit of the levee degradation.

This replaces drawing page 18 of 60 that was dated MAR 16'97 and attached to U. S. Army Permit# 1994 04532